

WHAT IS CLAIMED IS:

1. A method of determining a base sequence for nucleic acid, electrophoresing a fragment sample of nucleic acid and determining the base
 5 sequence of the nucleic acid on the basis of detected data, comprising steps of:

(A) performing waveform shaping by Fourier transformation on data of a certain number N of points from the head of the detected data with a parameter of a previously set peak interval;

10 (B) determining the base sequence as to data of P points ($P < N$) from the head of the data of N points;

(C) obtaining a peak interval from the result of the sequence determination;

15 (D) performing waveform shaping by Fourier transformation on data of N points from a position returning by L points ($L < M$) from final data precedently subjected to the sequence determination with a parameter of a precedently obtained peak interval; and

(E) determining the base sequence as to data of M points ($M < N$) of a central portion to be connected with data precedently subjected to the
 20 sequence determination among data of N points subjected to second or later waveform shaping, wherein

the steps (E) \rightarrow (C) \rightarrow (D) are repeated until data disappear or no analysis is required despite presence of data.

25 2. The method of determining a base sequence for nucleic acid according to claim 1, wherein

FFT treatment is applied as the waveform shaping by Fourier transformation.

30 3. The method of determining a base sequence for nucleic acid

according to claim 2, assuming that N is equal to 2^n , M is equal to $2^{(n-1)}$ and L is equal to $2^{(n-2)}$.

1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100